Polynomial Identities and Combinatorial Methods

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Polynomial Identities And Combinatorial Methods:

Polynomial Identities And Combinatorial Methods Antonio Giambruno,Amitai Regev,Mikhail Zaicev,2003-05-20 Polynomial Identities and Combinatorial Methods presents a wide range of perspectives on topics ranging from ring theory and combinatorics to invariant theory and associative algebras It covers recent breakthroughs and strategies impacting research on polynomial identities and identifies new concepts in algebraic combinatorics invariant and representation theory and Lie algebras and superalgebras for novel studies in the field It presents intensive discussions on various methods and techniques relating the theory of polynomial identities to other branches of algebraic study and includes discussions on Hopf algebras and quantum polynomials free algebras and Scheier varieties **Polynomial Identities and Asymptotic Methods** A. Giambruno,Mikhail Zaicev,2005 This book gives a state of the art approach to the study of polynomial identities satisfied by a given algebra by combining methods of ring theory combinatorics and representation theory of groups with analysis The idea of applying analytical methods to the theory of polynomial identities appeared in the early 1970s and this approach has become one of the most powerful tools of the theory A PI algebra is any algebra satisfying at least one nontrivial polynomial identity This includes the polynomial rings in one or several variables the Grassmann algebra finite dimensional algebras and many other algebras occurring naturally in mathematics The core of the book is the proof that the sequence of co dimensions of any PI algebra has integral exponential growth the PI exponent of the algebra Later chapters further apply these results to subjects such as a characterization of varieties of algebras having polynomial growth and a classification of varieties that are minimal for a given exponent *Polynomial Identities in Algebras* Onofrio Mario Di Vincenzo,Antonio Giambruno,2021-03-22 This volume contains the talks given at the INDAM workshop entitled Polynomial identites in algebras held in Rome in September 2019 The purpose of the book is to present the current state of the art in the theory of PI algebras The review of the classical results in the last few years has pointed out new perspectives for the development of the theory In particular the contributions emphasize on the computational and combinatorial aspects of the theory its connection with invariant theory representation theory growth problems It is addressed to researchers in the field

Computational Aspects of Polynomial Identities Alexei Kanel-Belov,Yakov Karasik,Louis Halle Rowen,2015-10-22 Computational Aspects of Polynomial Identities Volume l Kemer s Theorems 2nd Edition presents the underlying ideas in recent polynomial identity PI theory and demonstrates the validity of the proofs of PI theorems This edition gives all the details involved in Kemer s proof of Specht s conjecture for affine PI algebras in characteristic 0 The **From Combinatorics to Philosophy** Ernesto Damiani,Ottavio D'Antona,Vincenzo Marra,Fabrizio Palombi,2009-07-24 From Combinatorics to Philosophy The Legacy of G C Rota provides an assessment of G C Rota s legacy to current international research issues in mathematics philosophy and computer science This volume includes chapters by leading researchers as well as a number of invited research papers Rota s legacy connects European and Italian research communities to the USA

by providing inspiration to several generations of researchers in combinatorics philosophy and computer science From Combinatorics to Philosophy The Legacy of G C Rota is of valuable interest to research institutions and university libraries worldwide This book is also designed for advanced level students in mathematics computer science and philosophy **Rings with Polynomial Identities and Finite Dimensional Representations of Algebras** Eli Aljadeff,Antonio Giambruno,Claudio Procesi,Amitai Regev,2020-12-14 A polynomial identity for an algebra or a ring A A is a polynomial in noncommutative variables that vanishes under any evaluation in A A An algebra satisfying a nontrivial polynomial identity is called a PI algebra and this is the main object of study in this book which can be used by graduate students and researchers alike The book is divided into four parts Part 1 contains foundational material on representation theory and noncommutative algebra In addition to setting the stage for the rest of the book this part can be used for an introductory course in noncommutative algebra An expert reader may use Part 1 as reference and start with the main topics in the remaining parts Part 2 discusses the combinatorial aspects of the theory the growth theorem and Shirshov s bases Here methods of representation theory of the symmetric group play a major role Part 3 contains the main body of structure theorems for PI algebras theorems of Kaplansky and Posner the theory of central polynomials M Artin s theorem on Azumaya algebras and the geometric part on the variety of semisimple representations including the foundations of the theory of Cayley Hamilton algebras Part 4 is devoted first to the proof of the theorem of Razmyslov Kemer and Braun on the nilpotency of the nil radical for finitely generated PI algebras over Noetherian rings then to the theory of Kemer and the Specht problem Finally the authors discuss PI exponent and codimension growth This part uses some nontrivial analytic tools coming from probability theory The appendix presents the counterexamples of Golod and Shafarevich to the Burnside problem *Combinatorial Methods and Models* Rudolf Ahlswede,2017-06-30 The fourth volume of Rudolf Ahlswede s lectures on Information Theory is focused on Combinatorics Ahlswede was originally motivated to study combinatorial aspects of Information Theory via zero error codes in this case the structure of the coding problems usually drastically changes from probabilistic to combinatorial The best example is Shannon s zero error capacity where independent sets in graphs have to be examined The extension to multiple access channels leads to the Zarankiewicz problem A code can be regarded combinatorially as a hypergraph and many coding theorems can be obtained by appropriate colourings or coverings of the underlying hypergraphs Several such colouring and covering techniques and their applications are introduced in this book Furthermore codes produced by permutations and one of Ahlswede s favourite research fields extremal problems in Combinatorics are presented Whereas the first part of the book concentrates on combinatorial methods in order to analyse classical codes as prefix codes or codes in the Hamming metric the second is devoted to combinatorial models in Information Theory Here the code concept already relies on a rather combinatorial structure as in several concrete models of multiple access channels or more refined distortions An analytical tool coming into play especially during the analysis of perfect codes is the use of orthogonal

polynomials Classical information processing concerns the main tasks of gaining knowledge and the storage transmission and hiding of data The first task is the prime goal of Statistics For transmission and hiding data Shannon developed an impressive mathematical theory called Information Theory which he based on probabilistic models The theory largely involves the concept of codes with small error probabilities in spite of noise in the transmission which is modeled by channels The lectures presented in this work are suitable for graduate students in Mathematics and also for those working in Theoretical Computer Science Physics and Electrical Engineering with a background in basic Mathematics The lectures can be used as the basis for courses or to supplement courses in many ways Ph D students will also find research problems often with conjectures that offer potential subjects for a thesis More advanced researchers may find questions which form the basis of entire research programs   Combinatorial Methods for Computing Plethysms of Schur Functions Luisa Carini,1995

Algorithmic Algebraic Combinatorics and Gröbner Bases Mikhail Klin,Gareth A. Jones,Aleksandar Jurisic,Mikhail Muzychuk,Ilia Ponomarenko,2009-12-24 This collection of tutorial and research papers introduces readers to diverse areas of modern pure and applied algebraic combinatorics and finite geometries There is special emphasis on algorithmic aspects and the use of the theory of Gr bner bases   **Algebraic Combinatorics and Computer Science** H. Crapo,D. Senato,2012-12-06 This book dedicated to the memory of Gian Carlo Rota is the result of a collaborative effort by his friends students and admirers Rota was one of the great thinkers of our times innovator in both mathematics and phenomenology I feel moved yet touched by a sense of sadness in presenting this volume of work despite the fear that I may be unworthy of the task that befalls me Rota both the scientist and the man was marked by a generosity that knew no bounds His ideas opened wide the horizons of fields of research permitting an astonishing number of students from all over the globe to become enthusiastically involved The contagious energy with which he demonstrated his tremendous mental capacity always proved fresh and inspiring Beyond his renown as gifted scientist what was particularly striking in Gian Carlo Rota was his ability to appreciate the diverse intellectual capacities of those before him and to adapt his communications accordingly This human sense complemented by his acute appreciation of the importance of the individual acted as a catalyst in bringing forth the very best in each one of his students Whosoever was fortunate enough to enjoy Gian Carlo Rota s longstanding friendship was most enriched by the experience both mathematically and philosophically and had occasion to appreciate son cote de bon vivant The book opens with a heartfelt piece by Henry Crapo in which he meticulously pieces together what Gian Carlo Rota s untimely demise has bequeathed to science   **Combinatorics '86** M. Marchi,A. Barlotti,G. Tallini,2011-09-22 Recent developments in all aspects of combinatorial and incidence geometry are covered in this volume including their links with the foundations of geometry graph theory and algebraic structures and the applications to coding theory and computer science Topics covered include Galois geometries blocking sets affine and projective planes incidence structures and their automorphism groups Matroids graph theory and designs are also treated along with weak algebraic structures such as near

rings near fields quasi groups loops hypergroups etc and permutation sets and groups The vitality of combinatorics today lies in its important interactions with computer science The problems which arise are of a varied nature and suitable techniques to deal with them have to be devised for each situation one of the special features of combinatorics is the often sporadic nature of solutions stemming from its links with number theory The branches of combinatorics are many and various and all of them are represented in the 56 papers in this volume   Mathematical Reviews ,2004   **Hopf Algebras** Jeffrey Bergen,Stefan Catoiu,William Chin,2004-01-28 This volume publishes key proceedings from the recent International Conference on Hopf Algebras held at DePaul University Chicago Illinois With contributions from leading researchers in the field this collection deals with current topics ranging from categories of infinitesimal Hopf modules and bimodules to the construction of a Hopf algebraic   **Evolution Equations** Gisele Ruiz Goldstein,Rainer Nagel,Silvia Romanelli,2019-04-24 Celebrating the work of renowned mathematician Jerome A Goldstein this reference compiles original research on the theory and application of evolution equations to stochastics physics engineering biology and finance The text explores a wide range of topics in linear and nonlinear semigroup theory operator theory functional analysis and li   **Stochastic Processes and Functional Analysis** Alan C. Krinik,Randall J. Swift,2004-03-23 This extraordinary compilation is an expansion of the recent American Mathematical Society Special Session celebrating M M Rao s distinguished career and includes most of the presented papers as well as ancillary contributions from session invitees This book shows the effectiveness of abstract analysis for solving fundamental problems of stochas   **Rings, Modules, Algebras, and Abelian Groups** Alberto Facchini,Evan Houston,Luigi Salce,2020-02-10 Rings Modules Algebras and Abelian Groups summarizes the proceedings of a recent algebraic conference held at Venice International University in Italy Surveying the most influential developments in the field this reference reviews the latest research on Abelian groups algebras and their representations module and ring theory and topological   Abelian Groups, Rings, Modules, and Homological Algebra Pat Goeters,Overtoun M.G. Jenda,2016-04-19 About the book In honor of Edgar Enochs and his venerable contributions to a broad range of topics in Algebra top researchers from around the world gathered at Auburn University to report on their latest work and exchange ideas on some of today s foremost research topics This carefully edited volume presents the refereed papers of the par

Noncommutative Algebra and Geometry Corrado De Concini,Freddy Van Oystaeyen,Nikolai Vavilov,Anatoly Yakovlev,2005-09-01 A valuable addition to the Lecture Notes in Pure and Applied Mathematics series this reference results from a conference held in St Petersburg Russia in honor of Dr Z Borevich This volume is mainly devoted to the contributions related to the European Science Foundation workshop organized under the framework of noncommuntative geometry and i

Tools and Algorithms for the Construction and Analysis of Systems C.R. Ramakrishnan,2008-03-18 This book constitutes the refereed proceedings of the 14th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2008 held in Budapest Hungary in March April 2008 as part of ETAPS 2008 the European Joint

Conferences on Theory and Practice of Software The 31 revised full research papers and 7 revised tool demonstration papers presented together with the abstract of an invited paper were carefully reviewed and selected from a total of 140 submissions The papers are organized in topical sections on parameterized systems model checking applications static analysis concurrent distributed systems symbolic execution abstraction interpolation trust and reputation **Stochastic Partial Differential Equations and Applications - VII** Giuseppe Da Prato,Luciano Tubaro,2005-10-12 Stochastic Partial Differential Equations and Applications gives an overview of current state of the art stochastic PDEs in several fields such as filtering theory stochastic quantization quantum probability and mathematical finance Featuring contributions from leading expert participants at an international conference on the subject this boo

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